

101.12 - Steelmaking Alloys (powder form)

These SRMs are for checking chemical methods of analysis for major constituents and selected minor elements. They are furnished as fine powders (usually <0.1 mm).

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	57b	58a	59a	64c	68c	90	195	196	347	
Description	Ferrosilicon (73% Si Regular Grade)		Ferrosilicon	Ferrochromium, High Carbon	Ferromanganese, High Carbon	Ferrophosphorus	Ferrosilicon (75% Si-HP Grade)	Ferrochromium, Low Carbon	Magnesium Ferrosilicon	
Unit of Issue	Silicon Metal	(40 g)	(75 g)	(50 g)	(100 g)	(100 g)	(75 g)	(75 g)	(100 g)	(100 g)
C	0.024	0.0143	0.046	4.68	6.72		0.03445	0.035	0.017	
Mn	0.015	0.1611	0.75	0.16	80.04		0.1710	(0.282)	0.53	
P	0.003	0.0105	0.016	0.020	0.19	26.17	0.0190	0.020	0.023	
S	0.003	(<0.002)	0.002	0.067	0.008		(<0.002)	0.003	0.005	
Si	98.55	73.13	48.10	1.22	0.225		75.32	0.373	47.6	
Cu	0.004	0.0225	0.052	0.005			0.0468		0.065	
Ni	0.008	0.0124	0.033	0.43			0.0318		0.082	
O	(~0.3)	(0.25)					(<1)			
Cr	0.024	0.0193	0.080	68.00	0.074		0.0474	70.83	0.14	
V	0.013	(0.002)		0.15				(0.12)		
Mo		(<0.01)					(0.01)			
Ti	0.040	0.0510		0.02			0.0367		0.036	
Al	0.47	0.953	0.35				0.0460		0.78	
Zr	0.002	(<0.005)					0.0110			

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Ca	0.17	0.271	0.042				0.054		0.81	
Fe	0.50	25.239	50.05	24.98	12.3		23.62			
B	0.001	(<0.003)	0.058				0.00105			
As		(0.002)			0.021					
Co		(<0.03)		0.051			(<0.01)		0.004	
Sn		(<0.005)					(<0.005)			
Pb	<0.001									
Mg								4.49		
Ce								0.45		
La								0.26		
Bi										
N				0.045						

Values in parentheses are given for information only.

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Ferrochromium Silicon

(100 g pow)

0.043
0.32
0.026
0.002
39.5
0.013
0.20
(0.06)
36.4
0.09
0.40
0.049

689

Ferrochromium Silicon

(100 g pow)

23.2
0.0017
(0.009)
0.034
(0.004)
(<0.003)
(0.002)

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